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## NOTICE OF ALLOWANCE AND FEE(S) DUE

60429 7590 08/11/2008
CAMPBELL STEPHENSON LLP
11401 CENTURY OAKS TERRACE
BLDG. H. SUITE 250

AUSTIN, TX 78758

EXAMINER

VO, THANH DUC

ART UNIT PAPER NUMBER

2189 DATE MAILED: 08/11/2008

Γ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/812.322	03/29/2004	Chirag Deepak Dalal	VRT0125US	2702

TITLE OF INVENTION: IDENTIFICATION OF STORAGE TO ACQUIRE TO MAINTAIN THE INTENT OF LOGICAL VOLUMES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$0	\$1440	11/12/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1:313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of r a) specifying a new corres	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
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11401 CENTUF BLDG. H, SUIT		P	Lbe	Cert	ificate	of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being faesimile ate indicated below.
AUSTIN, TX 78	5/58						(Depositor's name)
			<u> </u>				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR				CONFIRMATION NO.
10/812,322 TITLE OF INVENTION	03/29/2004 T: IDENTIFICATION OF	STORAGE TO ACQUI	Chirag Deepak Dalal RE TO MAINTAIN THE	INTENT OF LOGI	CAL V	VRT0125US VOLUMES	2702
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nonprovisional	NO	\$1440	\$0	\$0		\$1440	11/12/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
VO, THA	NH DUC	2189	711-154000	•			
CFR 1.363).  Change of corresp Address form PTO/SI  "Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or typ data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	3 registered patent rely, e firm (having as a gent) and the name meys or agents. If a printed. ec)	membes of u	er a 2p to p to e is 3	ocument has been filed for
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4a. The following fee(s)  Issue Fee Publication Fee (N	vo small entity discount p	B. Payment of Fee(s): (Pfease first reapply any previously paid issue fee shown above)   A check is enclosed.   Payment by credit card. Form PTO-2038 is attached.   The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
	s SMALL ENTITY state	is. See 37 CFR 1.27.	b. Applicant is no lon				
interest as shown by the	u rubilication ree (if req records of the United Sta	tes Patent and Trademark	office.	ae applicant; a regi	stered a	morney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration N			
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11401 CENTURY OAKS TERRACE			ART UNIT	PAPER NUMBER
BLDG. H, SUITE AUSTIN, TX 787			2189 DATE MAII ED: 08/11/200	s

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 320 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 320 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Notice of Allowability

Application No.	Applicant(s)	
10/812.322	DALAL ET AL.	
Examiner	Art Unit	
Thanh D. Va	2190	

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address- ill claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not include erewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. OTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the the Office or upon petition by the applicant. See 37 CFR 1-313 and MPEP 1308.				
1. X This communication is responsive to the amendment filed on April 1	<u>0, 2008</u> .			
<ol> <li>The allowed claim(s) is/are <u>1-27</u>.</li> </ol>				
3.	perived.			
INFORMAL PATENT APPLICATION (PTO-152) which gives reason	(s) why the oath or declaration is deficient.			
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") must be subn</li> </ol>				
(a) ☐ including changes required by the Notice of Draftsperson's Pate	nt Drawing Review ( PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date				
<ul><li>(b) ☐ including changes required by the attached Examiner's Amendr Paper No./Mail Date</li></ul>	nent / Comment or in the Office action of			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) sho each sheet. Replacement sheet(s) should be labeled as such in the header				
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of BIC attached Examiner's comment regarding REQUIREMENT FOR THE</li> </ol>				
Attachment(s)  1.  Notice of References Cited (PTO-892)  2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413).			
	Paper No./Mail Date			
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	7. Examiner's Amendment/Comment			
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	8. X Examiner's Statement of Reasons for Allowance			
-	9. Other			

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#### ALLOWANCE

1. Claims 1-2 are allowed.

### Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

The primary reason for allowance of independent claims 1, 13, 18, and 23 is the absent of teaching in the prior art record of the combination of the following limitations:

"determining a first specification for a first set of need storage regions,

wherein the determining is performed in response to receiving a request to perform an operation on a logical volume, wherein the logical volume is created before the request to perform an operation is received.

the first specification is based on an intent for the logical volume and the operation,

searching a plurality of existing storage regions...; and

if no existing storage region is found corresponding to a first needed storage region in the first set of needed storage regions, determining a second specification for a second set of storage regions to be acquired, wherein the second set of storage regions is needed to perform the operation on the logical volume."

Claims 3-12, 14-17, 19-22, and 24-27 are also allowable for at least the same reason set forth in claims 1, 13, 18, and 23.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/812,322 Page 3

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to THANH VO whose telephone number is (571)272-0708.
 The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reginald G. Bragdon can be reached on 571-272-4204. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thanh D Vo/ Examiner, Art Unit 2189

/Reginald G. Bragdon/ Supervisory Patent Examiner, Art Unit 2189